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In re Application of: Mary Bendig *et al.*

Serial No.: 10/070,566

Group No.: 1638

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CERTIFICATE RE: SEQUENCE LISTING

MS Amendment

Commissioner for Patents

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Dated: November 29, 2004

By: 

Cliff Cannon-Cin

Sir or Madam:

I hereby state that the enclosed Sequence Listing is being submitted in paper copy and on a computer-readable diskette, and that the content of the paper and computer readable copies are the same.

Dated: November 29, 2004

By: 

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SEQUENCE LISTING

<110> Bendig, Mary
Jones, Tim
Hellendoorn, Koen

<120> Chimaeric Plant Viruses with Mucin Peptides

<130> DOW-07657

<140> 10/070,566

<141> 2002-03-07

<160> 38

<170> PatentIn version 3.2

<210> 1

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic

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Asp Ala His Trp Glu Ser Trp Leu
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Asp Leu His Trp Ala Ser Trp Val
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Gly Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala
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<400> 7

Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly
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<210> 8
 <211> 39
 <212> DNA
 <213> Soybean mosaic virus

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 atggaaggag gatcatctaa gactgctgtg aacactggg 39

<210> 9
 <211> 13
 <212> PRT
 <213> Soybean mosaic virus

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 Met Glu Gly Gly Ser Ser Lys Thr Ala Val Asn Thr Gly
 1 5 10

<210> 10
 <211> 48
 <212> DNA
 <213> Soybean mosaic virus

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 ctgctggt 68

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 <400> 15
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<210> 16
 <211> 33
 <212> PRT
 <213> Lucerne transient streak virus

<400> 16

Asn	Ile	Tyr	Ala	Pro	Ala	Arg	Leu	Thr	Ile	Ala	Ala	Ala	Asn	Ser	Ser
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			20					25					30		

Leu

<210> 17
<211> 37
<212> PRT
<213> Soybean mosaic virus

<400> 17

Asn Ile Gly Asn Ile Leu Val Pro Ala Arg Leu Val Ile Ala Met Glu
1 5 10 15

Gly Gly Ser Ser Lys Thr Ala Val Asn Thr Gly Arg Leu Tyr Ala Ser
20 25 30

Tyr Thr Ile Arg Leu
35

<210> 18
<211> 37
<212> PRT
<213> Soybean mosaic virus

<400> 18

Asn Ile Ala Thr Asp Leu Val Pro Ala Arg Leu Val Ile Ala Leu Leu
1 5 10 15

Asp Gly Ser Ser Ser Thr Ala Val Ala Ala Gly Arg Ile Tyr Ala Ser
20 25 30

Tyr Thr Ile Gln Met
35

<210> 19
<211> 51
<212> DNA
<213> Lucerne transient streak virus

<400> 19

atagccgcag ctaacagctc cataaacata gctagtgtgg gtactcttta t

51

<210> 20
<211> 17
<212> PRT
<213> Lucerne transient streak virus

<400> 20

Ile Ala Ala Ala Asn Ser Ser Ile Asn Ile Ala Ser Val Gly Thr Leu
1 5 10 15

Tyr

<210> 21
 <211> 83
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <400> 21
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 ataaacatag ctagtgtggg tac 83

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 <213> Artificial Sequence

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 <400> 23
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 gctaacatag ctagtgtggg tac 83

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 <213> Artificial Sequence

 <220>
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 <400> 24
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 actgctatag ctagtgtggg tac 83

<210> 25
 <211> 83
 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 25
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 tctactgctg ctagtgtggg tac 83

<210> 26
 <211> 83
 <212> DNA
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<220>
 <223> Synthetic

<400> 26
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 ggttctactg ctagtgtggg tac 83

<210> 27
 <211> 324
 <212> PRT
 <213> Tomato bushy stunt virus

<400> 27

Lys Lys Gln Gln Met Ile Asn His Val Gly Gly Thr Gly Gly Ala Ile
 1 5 10 15

Met Ala Pro Val Ala Val Thr Arg Gln Leu Val Gly Ser Lys Pro Lys
 20 25 30

Phe Thr Gly Arg Thr Ser Gly Ser Val Thr Val Thr His Arg Glu Tyr
 35 40 45

Leu Ser Gln Val Asn Asn Ser Thr Gly Phe Gln Val Asn Gly Gly Ile
 50 55 60

Val Gly Asn Leu Leu Gln Leu Asn Pro Leu Asn Gly Thr Leu Phe Ser
 65 70 75 80

Trp Leu Pro Ala Ile Ala Ser Asn Phe Asp Gln Tyr Thr Phe Asn Ser
 85 90 95

Val Val Leu His Tyr Val Pro Leu Cys Ser Thr Thr Glu Val Gly Arg
 100 105 110

Val	Ala	Ile	Tyr	Phe	Asp	Lys	Asp	Ser	Glu	Asp	Pro	Glu	Pro	Ala	Asp
		115					120					125			
Arg	Val	Glu	Leu	Ala	Asn	Tyr	Ser	Val	Leu	Lys	Glu	Thr	Ala	Pro	Trp
	130					135					140				
Ala	Glu	Ala	Met	Leu	Arg	Val	Pro	Thr	Asp	Lys	Ile	Lys	Arg	Phe	Cys
145					150					155					160
Asp	Asp	Ser	Ser	Thr	Ser	Asp	His	Lys	Leu	Ile	Asp	Leu	Gly	Gln	Leu
				165					170					175	
Gly	Ile	Ala	Thr	Tyr	Gly	Gly	Ala	Gly	Thr	Asn	Ala	Val	Gly	Asp	Ile
			180					185					190		
Phe	Ile	Ser	Tyr	Ser	Val	Thr	Leu	Tyr	Phe	Pro	Gln	Pro	Thr	Asn	Thr
		195					200					205			
Leu	Leu	Ser	Thr	Arg	Arg	Leu	Asp	Leu	Ala	Gly	Ala	Leu	Val	Thr	Ala
	210					215					220				
Ser	Gly	Pro	Gly	Tyr	Leu	Leu	Val	Ser	Arg	Thr	Ala	Thr	Val	Leu	Thr
225					230					235					240
Met	Thr	Phe	Arg	Ala	Thr	Gly	Thr	Phe	Val	Ile	Ser	Gly	Thr	Tyr	Arg
				245					250					255	
Cys	Leu	Thr	Ala	Thr	Thr	Leu	Gly	Leu	Ala	Gly	Gly	Val	Asn	Val	Asn
			260					265					270		
Ser	Ile	Thr	Val	Val	Asp	Asn	Ile	Gly	Thr	Asp	Ser	Ala	Phe	Phe	Ile
		275					280					285			
Asn	Cys	Thr	Val	Ser	Asn	Leu	Pro	Ser	Val	Val	Thr	Phe	Thr	Ser	Thr
	290					295					300				
Gly	Ile	Thr	Ser	Ala	Thr	Val	His	Cys	Val	Arg	Ala	Thr	Arg	Gln	Asn
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Asp	Val	Ser	Leu												

<210> 28
 <211> 331
 <212> PRT
 <213> Red clover necrotic mosaic virus

<400> 28

Lys Ser Lys Gln Arg Ser Gln Pro Arg Asn Arg Thr Pro Asn Thr Ser
 1 5 10 15

Val Lys Thr Val Ala Ile Pro Phe Ala Lys Thr Gln Ile Ile Lys Thr
 20 25 30

Val Asn Pro Pro Pro Lys Pro Ala Arg Gly Ile Leu His Thr Gln Leu
 35 40 45

Val Met Ser Val Val Gly Ser Val Gln Met Arg Thr Asn Asn Gly Lys
 50 55 60

Ser Asn Gln Arg Phe Arg Leu Asn Pro Ser Asn Pro Ala Leu Phe Pro
 65 70 75 80

Thr Leu Ala Tyr Glu Ala Ala Asn Tyr Asp Met Tyr Arg Leu Lys Lys
 85 90 95

Leu Thr Leu Arg Tyr Val Pro Leu Val Thr Val Gln Asn Ser Gly Arg
 100 105 110

Val Ala Met Ile Trp Asp Pro Asp Ser Gln Asp Ser Ala Pro Gln Ser
 115 120 125

Arg Gln Glu Ile Ser Ala Tyr Ser Arg Ser Val Ser Thr Ala Val Tyr
 130 135 140

Glu Lys Cys Ser Leu Thr Ile Pro Ala Asp Asn Gln Trp Arg Phe Val
 145 150 155 160

Ala Asp Asn Thr Thr Val Asp Arg Lys Leu Val Asp Phe Gly Gln Leu
 165 170 175

Leu Phe Val Thr His Ser Gly Ser Asp Gly Ile Glu Thr Gly Asp Ile
 180 185 190

Phe Leu Asp Cys Glu Val Glu Phe Lys Gly Pro Gln Pro Thr Ala Ser
 195 200 205

Ile Val Gln Lys Thr Val Ile Asp Leu Gly Gly Thr Leu Thr Ser Phe
 210 215 220

Glu Gly Pro Ser Tyr Leu Met Pro Pro Asp Ala Phe Ile Thr Ser Ser
 225 230 235 240

Ser Phe Gly Leu Phe Val Asp Val Ala Gly Thr Tyr Leu Leu Thr Leu
 245 250 255

Val Val Thr Cys Ser Thr Thr Gly Ser Val Thr Val Gly Gly Asn Ser
 260 265 270

Thr Leu Val Gly Asp Gly Arg Ala Ala Tyr Gly Ser Ser Asn Tyr Ile
 275 280 285

Ala Ser Ile Val Phe Thr Ser Ser Gly Val Leu Ser Thr Thr Pro Ser
 290 295 300

Val Gln Phe Ser Gly Ser Ser Gly Val Ser Arg Val Gln Met Asn Ile
 305 310 315 320

Cys Arg Cys Lys Gln Gly Asn Thr Phe Ile Leu
 325 330

<210> 29
 <211> 41
 <212> PRT
 <213> Red clover necrotic mosaic virus

<400> 29

Ala Ser Ile Val Gln Lys Thr Val Ile Asp Leu Gly Gly Thr Leu Thr
 1 5 10 15

Ser Phe Glu Gly Pro Ser Tyr Leu Met Pro Pro Asp Ala Phe Ile Thr
 20 25 30

Ser Ser Ser Phe Gly Leu Phe Val Asp
 35 40

<210> 30
 <211> 27
 <212> PRT
 <213> Red clover necrotic mosaic virus

<400> 30

Ala Ser Ile Val Gln Lys Tyr Val Ile Asp Leu Gly Gly Thr Leu Thr
 1 5 10 15

Ser Phe Glu Gly Pro Ser Tyr Leu Met Pro Pro
 20 25

<210> 31
 <211> 51
 <212> DNA
 <213> Red clover necrotic mosaic virus

<400> 31
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<210> 32
 <211> 17
 <212> PRT
 <213> Red clover necrotic mosaic virus

<400> 32
 Ser Ile Val Gln Lys Thr Val Ile Asp Leu Gly Gly Thr Leu Thr Ser
 1 5 10 15

Phe

<210> 33
 <211> 78
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 33
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 tgatctcggt gggacggt 78

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 <211> 78
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 <213> Artificial Sequence

<220>
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<400> 34
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<210> 35
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 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

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 tactgctggt gggacgtt 78

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 ttctactgct gggacgtt 78

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 tggttctact gctacgtt 78